Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	340	(370/431).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:49
L2	0	(select\$5 near9 (backup back-up alternat\$5) near9 path\$5 near9 (profile\$5 prefer\$5)) and 1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:53
L3	0	( select\$5 near9 (backup back-up different\$5 alternat\$5) near9	US-PGPUB; USPAT;	OR	OFF	2005/03/11 20:51
		path\$5 near9 (profile\$5 prefer\$5))	USOCR;			
		and 1	EPO; JPO; DERWENT; IBM_TDB			
L4	2430	(709/227).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:52
L5 ,	2	("20020010792").PN.	US-PGPUB; USPAT; USOCR;	OR	OFF	2005/03/11 20:52
			EPO; JPO; DERWENT;			
, r	,		IBM_TDB			
L6	1976	(709/238).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:53
L7	<b>1</b>	(select\$5 near9 (backup back-up alternat\$5) near9 path\$5 near9 (profile\$5 prefer\$5)) and 6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:53
S19	2	("6418324").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:48

S28	7	select\$5 near3 alternat\$5 near3 path\$5 near4 (profile\$5 prefer\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 10:55
S29	18	select\$5 near9 (backup back-up alternat\$5) near9 path\$5 near9 (profile\$5 prefer\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:49
S30	67	select\$5 near9 (backup back-up different\$5 alternat\$5) near9 path\$5 near9 (profile\$5 prefer\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:50
<b>S31</b>	33	S30 and @ad<"20000721"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	<b>OFF</b>	2005/03/11 11:09

S9	0	(((session\$5 link\$5 path\$3) near (select\$5 choos\$5))) and "6272148".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT;	OR	OFF	2005/03/10 13:48
S10	0	(((session\$5 link\$5 path\$3) near9 (select\$5 choos\$5))) and "6272148".pn.	IBM_TDB US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 11:38
S11	930	(((session\$5 link\$5 path\$3) near4 (select\$5 choos\$5))) with profile\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 11:38
S12	109	(rout\$3 near3 (information\$3 data)) and S11	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT;	OR	OFF	2005/03/10 11:39
			IBM_TDB			
S13	49	S12 and @ad<"20000815"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 13:48
S14	74	tcp adj2 spoof\$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:20
S15	26	(((session\$5 link\$5 path\$3) near4 (select\$5 choos\$5))) and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 13:48
S16	1 114 A 4	S15 and @ad<"20000815"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:12

	,		T	T		
S17	19	S14 and @ad<"20000815"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:32
S18	381	(path\$3 link\$3 session\$3 connection\$3) near3 select\$5 near3 profile\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:21
S19	3	(path\$3 link\$3 session\$3 connection\$3) near3 select\$5 near3 profile\$3 with (gateway\$3 proxy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:22
<b>S20</b>	17	(path\$3 link\$3 session\$3 connection\$3) near3 select\$5 near3 profile\$3 with (rule\$3 polic\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:30
S21	4	(("6473795") or ("6058243")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:28
<b>S22</b>	334	((path\$3 link\$3 session\$3 connection\$3) near8 select\$5 near9 profile\$3) and (rule\$3 polic\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:31
S23	110	S22 and @ad<"20000815"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:33
S24	18	S22 and @ad<"20000815" and "709"/\$.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:39

S25	17	"6094687".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:47
<b>S26</b>		"6094687".uref. and (gateway proxy)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 14:49
S27	2	"6590867".uref.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 16:40
<b>S28</b>	3	<b>"</b> 9858474"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 16:40

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	45	"tcp spoofing"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 13:47
S2	52874	((session\$5 link\$5 path\$3) near (select\$5 choos\$5))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 11:30
<b>S3</b>	93488	(rout\$3 near3 (information\$3 data))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/10 11:39
S4	980	S2 and S3 and profile\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/09 18:03
<b>.</b> \$5	11	S2 and S3 and profile\$3 and S1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/09 18:19
S6	2	("0903905").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/09 18:20
<b>S7</b>	9	"0903905"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/09 18:21
S8	24	"903905"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/09 18:21

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L21	8	"9311622"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 17:35
L45	1	(common adj3 (traffic\$3) near connection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:18
L46	13	(common adj3 (traffic\$3) near9 connection)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:20
L47	27	(common adj traffic\$3) with (group\$5 cluster\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:20
L49	99	(common adj traffic adj channel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:32
L54	0	'same' adj traffic near9 (different adj channel\$5)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 20:43



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1 METRO: a router architecture for high-performance, short-haul routing networks A. DeHon, F. Chong, M. Becker, E. Egozy, H. Minsky, S. Peretz, T. F. Knight April 1994 ACM SIGARCH Computer Architecture News, Proceedings of the 21ST annual international symposium on Computer architecture, Volume 22 Issue 2

Full text available: pdf(1.15 MB)

Additional Information: full citation, abstract, references, citings, index

The Multipath Enhanced Transit Router Organization (METRO) is a flexible routing architecture for high-performance, tightly-coupled, multiprocessors and routing hubs. A METRO router is a dilated cross-bar routing component supporting half-duplex bidirectional, pipelined, circuit-switched connections. Each METRO router is self-routing and supports dynamic message traffic. The routers works in conjunction with source-responsible network interfaces to achieve reliable en ...

2 A comparison of overlay routing and multihoming route control

Aditva Akella, Jeffrey Pang, Bruce Maggs, Srinivasan Seshan, Anees Shaikh August 2004 ACM SIGCOMM Computer Communication Review, Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 34 Issue 4

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references, citings, index terms

The limitations of BGP routing in the Internet are often blamed for poor end-to-end performance and prolonged connectivity interruptions. Recent work advocates using overlays to effectively bypass BGP's path selection in order to improve performance and fault tolerance. In this paper, we explore the possibility that intelligent control of BGP routes, coupled with ISP multihoming, can provide competitive end-to-end performance and reliability. Using extensive measurements of paths between nodes i ...

**Keywords**: multihoming, overlay routing, route control

3 A constant-factor approximation algorithm for packet routing, and balancing local vs. global criteria

Aravind Srinivasan, Chung-Piaw Teo

May 1997 Proceedings of the twenty-ninth annual ACM symposium on Theory of computing

Full text available: pdf(1.32 MB)

Additional Information: full citation, references, citings, index terms

33

Keywords: approximation algorithms, covering integer programs, discrete ham-sandwich theorems, linear programming, packet routing, randomized algorithms, randomized rounding, rounding theorems

4 Routing: Path set selection in mobile ad hoc networks

Panagiotis Papadimitratos, Zygmunt J. Haas, Emin Gün Sirer

June 2002 Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing

Full text available: pdf(300.24 KB)

Additional Information: full citation, abstract, references, citings, index terms

Topological changes in mobile ad hoc networks frequently render routing paths unusable. Such recurrent path failures have detrimental effects on the network ability to support QoSdriven services. A promising technique for addressing this problem is to use multiple redundant paths between the source and the destination. However while multipath routing algorithms can tolerate network failures well their failure resilience only holds if the paths are selected judiciously. In particular the correla ...

**Keywords**: mobile ad hoc networks, path set selection, reliability

5 Resilient overlay networks

David Andersen, Hari Balakrishnan, Frans Kaashoek, Robert Morris

October 2001 ACM SIGOPS Operating Systems Review, Proceedings of the eighteenth ACM symposium on Operating systems principles, Volume 35 Issue 5

Full text available: pdf(1.50 MB)

Additional Information: full citation, abstract, references, citings, index terms

A Resilient Overlay Network (RON) is an architecture that allows distributed Internet applications to detect and recover from path outages and periods of degraded performance within several seconds, improving over today's wide-area routing protocols that take at least several minutes to recover. A RON is an application-layer overlay on top of the existing Internet routing substrate. The RON nodes monitor the functioning and quality of the Internet paths among themselves, and use this information ...

6 Design and performance of multipath MIN architectures

Frederic T. Chong, Thomas F. Knight

June 1992 Proceedings of the fourth annual ACM symposium on Parallel algorithms and architectures

Full text available: pdf(1.05 MB)

Additional Information: full citation, references, citings, index terms

7 Scalable expanders: exploiting hierarchical random wiring

Eric A. Brewer, Frederic T. Chong, Tom Leighton

May 1994 Proceedings of the twenty-sixth annual ACM symposium on Theory of computing

Full text available: pdf(941.42 KB) Additional Information: full citation, references, citings, index terms

8 Congestion: Best-path vs. multi-path overlay routing

David G. Andersen, Alex C. Snoeren, Hari Balakrishnan

October 2003 Proceedings of the 3rd ACM SIGCOMM conference on Internet

33

#### measurement

Full text available: pdf(142.64 KB)

Additional Information: full citation, abstract, references, citings, index

Time-varying congestion on Internet paths and failures due to software, hardware, and configuration errors often disrupt packet delivery on the Internet. Many aproaches to avoiding these problems use multiple paths between two network locations. These approaches rely on a path-independence assumption in order to work well; i.e., they work best when the problems on different paths between two locations are uncorrelated in time. This paper examines the extent to which this assumption holds on the In ...

Keywords: measurement, multi-path routing, networking, overlay networks

# 9 Empirical study of traffic trunking in Linux-based MPLS test-bed

G. Rosenbaum, S. Jha, M. Hassan

July 2003 International Journal of Network Management, Volume 13 Issue 4

Full text available: pdf(128.04 KB) Additional Information: full citation, abstract, references, index terms

The thrust of this study is to construct an MPLS test-bed using open hardware and software and later use this test-bed for experimenting with various traffic engineering options available with MPLS. We have constructed a test-bed using Pentium PCs and Linux and used this test-bed to try a well-known MPLS traffic engineering feature of separating flows into multiple trunks. The purpose of this separation is to experimentally assess the quality of service benefits we can expect from MPLS networks.

#### 10 Informed content delivery across adaptive overlay networks

John W. Byers, Jeffrey Considine, Michael Mitzenmacher, Stanislav Rost October 2004 IEEE/ACM Transactions on Networking (TON), Volume 12 Issue 5

Full text available: pdf(645.82 KB) Additional Information: full citation, abstract, references, index terms

Overlay networks have emerged as a powerful and highly flexible method for delivering content. We study how to optimize throughput of large transfers across richly connected, adaptive overlay networks, focusing on the potential of collaborative transfers between peers to supplement ongoing downloads. First, we make the case for an erasure-resilient encoding of the content. Using the digital fountain encoding approach, end hosts can efficiently reconstruct the original content of size <i>n ...

**Keywords**: bloom filter, content delivery, digital fountain, erasure code, min-wise sketch, overlay, peer-to-peer, reconciliation

# 11 Optimizing cost and performance for multihoming

David K. Goldenberg, Lili Qiuy, Haiyong Xie, Yang Richard Yang, Yin Zhang August 2004 ACM SIGCOMM Computer Communication Review, Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 34 Issue 4

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(429.05 KB) terms

Multihoming is often used by large enterprises and stub ISPs to connect to the Internet. In this paper, we design a series of novel smart routing algorithms to optimize cost and performance for multihomed users. We evaluate our algorithms through both analysis and extensive simulations based on realistic charging models, traffic demands, performance data, and network topologies. Our results suggest that these algorithms are very effective in minimizing cost and at the same time improving ...

Keywords: algorithms, multihoming, optimization, smart routing

#### 12 Efficient routing in optical networks

Alok Aggarwal, Amotz Bar-Noy, Don Coppersmith, Rajiv Ramaswami, Baruch Schieber, Madhu Sudan

November 1996 Journal of the ACM (JACM), Volume 43 Issue 6

Full text available: pdf(559.18 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms, <u>review</u>

This paper studies the problem of dedicating routes to connections in optical networks. In optical networks, the vast bandwidth available in an optical fiber is utilized by partitioning it into several channels, each at a different optical wavelength. A connection between two nodes is assigned a specific wavelength, with the constraint that no two connections sharing a link in the network can be assigned the same wavelength. This paper considers optical networks with and without switches, a ...

Keywords: optical networks, routing, wavelength assignment

# 13 Testing and Fault-Tolerance: Test generation for resistive opens in CMOS

Arun Krishnamachary, Jacob A. Abraham

April 2002 Proceedings of the 12th ACM Great Lakes symposium on VLSI

Full text available: pdf(100.35 KB) Additional Information: full citation, abstract, references, index terms

This paper develops new techniques for detecting both stuck-open faults and resistive open faults, which result in increased delays along some paths. The improved detection of CMOS open defects is made possible by a new delay fault model which combines the advantages of the gate delay fault model and the path delay fault model. We develop a test generation methodology for this fault model which enables generation of test vectors that test a percentage of the longest sensitizable paths in the des ...

Keywords: defect detection, delay testing, resistive opens

#### 14 Informed content delivery across adaptive overlay networks

John Byers, Jeffrey Considine, Michael Mitzenmacher, Stanislav Rost

August 2002 ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications, Volume 32 Issue 4

Full text available: 🔁 pdf(245.12 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

9

33

Overlay networks have emerged as a powerful and highly flexible method for delivering content. We study how to optimize throughput of large transfers across richly connected, adaptive overlay networks, focusing on the potential of collaborative transfers between peers to supplement ongoing downloads. First, we make the case for an erasure-resilient encoding of the content. Using the digital fountain encoding approach, end-hosts can efficiently reconstruct the original content of size \$n\$ from a ...

**Keywords**: Bloom filter, collaboration, content delivery, digital fountain, erasure correcting code, min-wise summary, overlay, peer-to-peer, reconciliation

# 15 Methods for message routing in parallel machines

Tom Leighton



#### July 1992 Proceedings of the twenty-fourth annual ACM symposium on Theory of computing

Full text available: pdf(2.32 MB) Additional Information: full citation, references, citings, index terms

16 Efficient routing and scheduling algorithms for optical networks

Alok Aggarwal, Amotz Bar-Noy, Don Coppersmith, Rajiv Ramaswami, Baruch Schieber, Madhu Sudan

January 1994 Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms

Full text available: 📆 pdf(1.32 MB) Additional Information: full citation, references, citings, index terms

17 Deriving traffic demands for operational IP networks: methodology and experience Anja Feldmann, Albert Greenberg, Carsten Lund, Nick Reingold, Jennifer Rexford, Fred True August 2000 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication, Volume 30 Issue 4

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(341.59 KB)

Engineering a large IP backbone network without an accurate, network-wide view of the traffic demands is challenging. Shifts in user behavior, changes in routing policies, and failures of network elements can result in significant (and sudden) fluctuations in load. In this paper, we present a model of traffic demands to support traffic engineering and performance debugging of large Internet Service Provider networks. By defining a traffic demand as a volume of load originating from an ingre ...

18 From defects to failures: a view of dependable computing

Behrooz Parhami

September 1988 ACM SIGARCH Computer Architecture News, Volume 16 Issue 4

Full text available: pdf(1.22 MB) Additional Information: full citation, abstract, index terms

A unified framework and terminology for the study of computer system dependability is presented. Impairments to dependability are viewed from six abstraction levels. It is argued that all of these levels are useful, in the sense that proven dependability procurement techniques can be applied at each level, and that it is beneficial to have distinct, precisely defined terminology for describing impairments to and procurement strategies for computer system dependability at these levels. The six le ...

19 Planar-adaptive routing: low-cost adaptive networks for multiprocessors

Andrew A. Chien, Jae H. Kim

January 1995 Journal of the ACM (JACM), Volume 42 Issue 1

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.28 MB) terms, review

Network throughput can be increased by allowing multipath, adaptive routing. Adaptive routing allows more freedom in the paths taken by messages, spreading load over physical channels more evenly. The flexibility of adaptive routing introduces new possibilities of deadlock. Previous deadlock avoidance schemes in k-ary n-cubes require an exponential number of virtual channels. We describe a family of deadlock-free routing algorithms, called planar-ad ...

Keywords: adaptive routing, fault tolerance, interconnection networks, multicomputers, packet routing, parallel processing, transmission-order preservation

<sup>20</sup> Wormhole routing techniques for directly connected multicomputer systems



Prasant Mohapatra

September 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 3

Full text available: pdf(340.68 KB)

Additional Information: full citation, abstract, references, citings, index terms

Wormhole routing has emerged as the most widely used switching technique in massively parallel computers. We present a detailed survey of various techniques for enhancing the performance and reliability of wormhole-routing schemes in directly connected networks. We start with an overview of the direct network topologies and a comparison of various switching techniques. Next, the characteristics of the wormhole routing mechanism are described in detail along with the theory behind deadlock-f ...

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Speculative hedge: regulating compile-time speculation against profile variations

Brian L. Deitrich, Wen-mei W. Hwu

December 1996 Proceedings of the 29th annual ACM/IEEE international symposium on **Microarchitecture** 

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Path-oriented scheduling methods, such as trace scheduling and hyperblock scheduling, use speculation to extract instruction-level parallelism from control-intensive programs. These methods predict important execution paths in the current scheduling scope using execution profiling or frequency estimation. Aggressive speculation is then applied to the important execution paths, possibly at the cost of degraded performance along other paths. Therefore, the speed of the output code can be sensitive ...

Superblock formation using static program analysis

Richard E. Hank, Scott A. Mahlke, Roger A. Bringmann, John C. Gyllenhaal, Wen-mei W. Hwu December 1993 Proceedings of the 26th annual international symposium on Microarchitecture

Full text available: 📆 pdf(999.79 KB) Additional Information: full citation, references, citings

Keywords: VLIW, code scheduling, optimization, static program analysis, superblock, superscalar

Edge profiling versus path profiling: the showdown

Thomas Ball, Peter Mataga, Mooly Sagiv

January 1998 Proceedings of the 25th ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Full text available: pdf(1.84 MB)

Additional Information: full citation, references, citings, index terms

4 Expert design tools for physical database design

Rajiv Tewari

September 1990 Proceedings of the 1990 ACM SIGBDP conference on Trends and

v 1 CO

#### directions in expert systems

Full text available: pdf(926.35 KB) Additional Information: full citation, references, index terms

# 5 Routing with end-to-end QoS guarantees in broadband networks

Ariel Orda

June 1999 IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 3

Full text available: pdf(209.52 KB) Additional Information: full citation, references, citings, index terms

Keywords: QoS routing, constrained path optimization, hierarchical networks, rate-based schedulers, topology aggregation

#### 6 STATEMATE applied to statistical software testing

P. Thévenod-Fosse, H. Waeselynck

July 1993 ACM SIGSOFT Software Engineering Notes, Proceedings of the 1993 ACM SIGSOFT international symposium on Software testing and analysis, Volume

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.31 MB) terms

This paper is concerned with the use of statistical testing as a verification technique for complex software. Statistical testing involves exercising a program with random inputs, the test profile and the number of generated inputs being determined according to criteria based on program structure or software functionality. In case of complex programs, the probabilistic generation must be based on a black box analysis, the adopted criteria being defined from behavior model ...

# Integrated program measurement and documentation tools

Anne Schroeder

March 1984 Proceedings of the 7th international conference on Software engineering

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(703.65 KB) terms

This paper describes an attempt to integrate the collection and the efficient utilisation of measurements in the development and the use of programs. The work presented consists in three parts: - the design of both static and dynamic measurement tools, - examples of data processing on measurements collected on a sample of Pascal programs, - the design of a quantitative documentation of a program, which is automatically built as measurements are collected.

# Using formal specifications as test oracles for system-critical software

Jon Hagar, James M. Bieman

November 1996 ACM SIGAda Ada Letters, Volume XVI Issue 6

Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, index terms

The process used to validate, verify, and test flight avionics control systems has produced software that is highly reliable. However, ever greater demands for reliability require new automated tools to improve existing processes. We used the Anna (Annotated Ada) formal specification language and supporting tool set to develop a Test Range Oracle Tool (TROT) to automate the testing of equation execution. Our approach fits within the existing testing process, automates perviously manual analysis, ...

Keywords: Ada, annotated Ada, formal specifications, industrial software, process improvement, spec language, test oracle, testing process, verification & validation

#### 9 Statistical profile estimation in database systems

Michael V. Mannino, Paicheng Chu, Thomas Sager

September 1988 ACM Computing Surveys (CSUR), Volume 20 Issue 3

Full text available: pdf(2.94 MB)

Additional Information: full citation, abstract, references, citings, index terms

A statistical profile summarizes the instances of a database. It describes aspects such as the number of tuples, the number of values, the distribution of values, the correlation between value sets, and the distribution of tuples among secondary storage units. Estimation of database profiles is critical in the problems of query optimization, physical database design, and database performance prediction. This paper describes a model of a database of profile, relates this model to estimating ...

#### 10 An online computation of critical path profiling

Jeffrey K. Hollingsworth

January 1996 Proceedings of the SIGMETRICS symposium on Parallel and distributed

Full text available: R pdf(1.00 MB)

Additional Information: full citation, references, citings, index terms

# 11 The use of program profiling for software maintenance with applications to the year 2000 problem

Thomas Reps, Thomas Ball, Manuvir Das, James Larus

November 1997 ACM SIGSOFT Software Engineering Notes, Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering, Volume 22 Issue 6

Full text available: pdf(1.85 MB)

Additional Information: full citation, references, citings, index terms

# 12 An instant and accurate size estimation method for joins and selections in a retrievalintensive environment

Wei Sun, Yibei Ling, Naphtali Rishe, Yi Deng

June 1993 ACM SIGMOD Record, Proceedings of the 1993 ACM SIGMOD international conference on Management of data, Volume 22 Issue 2

Full text available: pdf(1.05 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper proposes a novel strategy for estimating the size of the resulting relation after an equi-join and selection using a regression model. An approximating series representing the underlying data distribution and dependency is derived from the actual data. The proposed method provides an instant and accurate size estimation by performing an evaluation of the series, with no run-time overheads in page faults and space, and with negligible CPU overhead. In contrast, the popular ...

# 13 A piggyback method to collect statistics for query optimization in database management systems

Qiang Zhu, Brian Dunkel, Nandit Soparkar, Suyun Chen, Berni Schiefer, Tony Lai November 1998 Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research

Full text available: 🔂 pdf(328.82 KB) Additional Information: full citation, abstract, references, citings, index

A database management system (DBMS) performs query optimization based on statistical information about data in the underlying data-base. Out-of-date statistics may lead to inefficient query processing in the system. Existing solutions to this problem have some drawbacks such as heavy administrative burden, high system load, and tardy updates. To overcome these drawbacks, our new approach, called the piggyback method, is proposed in this paper. The key idea is to piggyback some additional retriev ...

Keywords: access method, cost estimation, database management system, piggyback analysis, query optimization, statistics collection

14 Multidatabase systems: Interchanging group-by and join in distributed guery processing

Weipeng Paul Yan

October 1993 Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2

Full text available: pdf(567.73 KB) Additional Information: full citation, abstract, references

In previous work we have shown that the order of evaluating join and group-by can be interchanged in an SQL query under certain conditions. In many cases, performing group-by before join is a better way of evaluating the query. However, queries do exist for which it is better to perform join before group-by. When the conditions for interchanging the order of join and group-by for an SQL query are satisfied, the evaluation order should be determined mainly by the objective function of the query p ...

<sup>15</sup> Query optimization

Yannis E. Ioannidis

March 1996 ACM Computing Surveys (CSUR), Volume 28 Issue 1

Full text available: pdf(185.93 KB) Additional Information: full citation, references, citings, index terms

16 Query optimization in a memory-resident domain relational calculus database system Kyu-Young Whang, Ravi Krishnamurthy

March 1990 ACM Transactions on Database Systems (TODS), Volume 15 Issue 1

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(2.46 MB) terms

We present techniques for optimizing queries in memory-resident database systems. Optimization techniques in memory-resident database systems differ significantly from those in conventional disk-resident database systems. In this paper we address the following aspects of query optimization in such systems and present specific solutions for them: (1) a new approach to developing a CPU-intensive cost model; (2) new optimization strategies for main-memory query processing; (3) new insight into ...

17 A comparison of selectivity estimators for range queries on metric attributes Björn Blohsfeld, Dieter Korus, Bernhard Seeger

June 1999 ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD international conference on Management of data, Volume 28 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.53 MB) terms

In this paper, we present a comparison of nonparametric estimation methods for computing approximations of the selectivities of queries, in particular range queries. In contrast to

previous studies, the focus of our comparison is on metric attributes with large domains which occur for example in spatial and temporal databases. We also assume that only small sample sets of the required relations are available for estimating the selectivity. In addition to the popular histogram estimators, ou ...

# 18 Multiple-granularity interleaving for piggyback query processing

Brian Dunkel, Qiang Zhu, Wing Lau, Suyun Chen

November 1999 Proceedings of the 1999 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(353.91 KB) Additional Information: full citation, abstract, references, index terms

Piggyback query processing is a new technique, described in [24], intended to perform additional useful computation (e.g., database statistics collection) during normal query processing, taking full advantage of data resident in main memory. Different types of benecial piggybacking have been identifed and studied, but how to efficiently integrate piggyback operations with a given user query is still an open issue. In this paper, we propose a technique of multiple-granularity interleaving to effi ...

Keywords: database statistics, multiple-granularity interleaving, piggybacking, query optimization, query processing

# 19 Improved histograms for selectivity estimation of range predicates

Viswanath Poosala, Peter J. Haas, Yannis E. Ioannidis, Eugene J. Shekita June 1996 ACM SIGMOD Record, Proceedings of the 1996 ACM SIGMOD international

conference on Management of data, Volume 25 Issue 2

Full text available: pdf(1.35 MB)

Additional Information: full citation, abstract, references, citings, index terms

Many commercial database systems maintain histograms to summarize the contents of relations and permit efficient estimation of query result sizes and access plan costs. Although several types of histograms have been proposed in the past, there has never been a systematic study of all histogram aspects, the available choices for each aspect, and the impact of such choices on histogram effectiveness. In this paper, we provide a taxonomy of histograms that captures all previously proposed histogram ...

# 20 On the propagation of errors in the size of join results

Yannis E. Ioannidis, Stavros Christodoulakis

April 1991 ACM SIGMOD Record, Proceedings of the 1991 ACM SIGMOD international conference on Management of data, Volume 20 Issue 2

Full text available: pdf(936.03 KB) Additional Information: full citation, references, citings, index terms

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METRO: a router architecture for high-performance, short-haul routing networks
A. DeHon, F. Chong, M. Becker, E. Egozy, H. Minsky, S. Peretz, T. F. Knight
April 1994 ACM SIGARCH Computer Architecture News, Proceedings of the 21ST
annual international symposium on Computer architecture, Volume 22 Issue 2

Full text available: pdf(1.15 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The Multipath Enhanced Transit Router Organization (METRO) is a flexible routing architecture for high-performance, tightly-coupled, multiprocessors and routing hubs. A METRO router is a dilated cross-bar routing component supporting half-duplex bidirectional, pipelined, circuit-switched connections. Each METRO router is self-routing and supports dynamic message traffic. The routers works in conjunction with source-responsible network interfaces to achieve reliable en ...

2 A constant-factor approximation algorithm for packet routing, and balancing local vs. global criteria

Aravind Srinivasan, Chung-Piaw Teo

May 1997 Proceedings of the twenty-ninth annual ACM symposium on Theory of computing

Full text available: pdf(1.32 MB)

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**Keywords**: approximation algorithms, covering integer programs, discrete ham-sandwich theorems, linear programming, packet routing, randomized algorithms, randomized rounding, rounding theorems

3 Design and performance of multipath MIN architectures

Frederic T. Chong, Thomas F. Knight

June 1992 Proceedings of the fourth annual ACM symposium on Parallel algorithms and architectures

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4 Scalable expanders: exploiting hierarchical random wiring Eric A. Brewer, Frederic T. Chong, Tom Leighton

# May 1994 Proceedings of the twenty-sixth annual ACM symposium on Theory of computing

Full text available: pdf(941.42 KB) Additional Information: full citation, references, citings, index terms

### 5 Efficient routing in optical networks

Alok Aggarwal, Amotz Bar-Noy, Don Coppersmith, Rajiv Ramaswami, Baruch Schieber, Madhu Sudan

November 1996 Journal of the ACM (JACM), Volume 43 Issue 6

Full text available: pdf(559.18 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

This paper studies the problem of dedicating routes to connections in optical networks. In optical networks, the vast bandwidth available in an optical fiber is utilized by partitioning it into several channels, each at a different optical wavelength. A connection between two nodes is assigned a specific wavelength, with the constraint that no two connections sharing a link in the network can be assigned the same wavelength. This paper considers optical networks with and without switches, a ...

Keywords: optical networks, routing, wavelength assignment

#### <sup>6</sup> Methods for message routing in parallel machines

Tom Leighton

July 1992 Proceedings of the twenty-fourth annual ACM symposium on Theory of computing

Full text available: pdf(2.32 MB)

Additional Information: full citation, references, citings, index terms

# 7 Efficient routing and scheduling algorithms for optical networks

Alok Aggarwal, Amotz Bar-Noy, Don Coppersmith, Rajiv Ramaswami, Baruch Schieber, Madhu Sudan

January 1994 Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms

Full text available: pdf(1.32 MB) Additional Information: full citation, references, citings, index terms

# 8 From defects to failures: a view of dependable computing

Behrooz Parhami

September 1988 ACM SIGARCH Computer Architecture News, Volume 16 Issue 4

Full text available: pdf(1.22 MB)

Additional Information: full citation, abstract, index terms

A unified framework and terminology for the study of computer system dependability is presented. Impairments to dependability are viewed from six abstraction levels. It is argued that all of these levels are useful, in the sense that proven dependability procurement techniques can be applied at each level, and that it is beneficial to have distinct, precisely defined terminology for describing impairments to and procurement strategies for computer system dependability at these levels. The six le ...

# 9 Planar-adaptive routing: low-cost adaptive networks for multiprocessors

Andrew A. Chien, Jae H. Kim

January 1995 Journal of the ACM (JACM), Volume 42 Issue 1

Full text available: pdf(2.28 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Network throughput can be increased by allowing multipath, adaptive routing. Adaptive routing allows more freedom in the paths taken by messages, spreading load over physical channels more evenly. The flexibility of adaptive routing introduces new possibilities of deadlock. Previous deadlock avoidance schemes in k-ary n-cubes require an exponential number of virtual channels. We describe a family of deadlock-free routing algorithms, called planar-ad ...

Keywords: adaptive routing, fault tolerance, interconnection networks, multicomputers, packet routing, parallel processing, transmission-order preservation

# 10 Wormhole routing techniques for directly connected multicomputer systems

Prasant Mohapatra

September 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 3

Full text available: pdf(340.68 KB)

Additional Information: full citation, abstract, references, citings, index terms

Wormhole routing has emerged as the most widely used switching technique in massively parallel computers. We present a detailed survey of various techniques for enhancing the performance and reliability of wormhole-routing schemes in directly connected networks. We start with an overview of the direct network topologies and a comparison of various switching techniques. Next, the characteristics of the wormhole routing mechanism are described in detail along with the theory behind deadlock-f ...

#### 11 Improved routing and sorting on multibutterflies

Bruce M. Maggs, Berthold Vöcking

May 1997 Proceedings of the twenty-ninth annual ACM symposium on Theory of computing

Full text available: T pdf(1.86 MB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

# 12 Adaptive wavelength routing in all-optical networks

Ahmed Mokhtar, Murat Azizoğlu

April 1998 IEEE/ACM Transactions on Networking (TON), Volume 6 Issue 2

Full text available: pdf(263.43 KB) Additional Information: full citation, references, citings, index terms

Keywords: adaptive routing, all-optical networks, blocking performance, wavelength assignment, wavelength routing

#### 13 Fast computation using faulty hypercubes

J. Hastad, T. Leighton

February 1989 Proceedings of the twenty-first annual ACM symposium on Theory of computing

Full text available: pdf(1.65 MB)

Additional Information: full citation, abstract, references, citings, index terms

We consider the computational power of a hypercube containing a potentially large number of randomly located faulty components. We describe a randomized algorithm which embeds an N-node hypercube in an N-node hypercube with faulty processors. Provided that the processors of the N-node hypercube are faulty with probability p < 1, and that the faults are

3/1 /

independently distributed, we show that with high probability, the fa ...

#### 14 VAXcluster: a closely-coupled distributed system

Nancy P. Kronenberg, Henry M. Levy, William D. Strecker

May 1986 ACM Transactions on Computer Systems (TOCS), Volume 4 Issue 2

Full text available: pdf(1.25 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

A VAXcluster is a highly available and extensible configuration of VAX computers that operate as a single system. To achieve performance in a multicomputer environment, a new communications architecture, communications hardware, and distributed software were jointly designed. The software is a distributed version of the VAX/VMS operating system that uses a distributed lock manager to synchronize access to shared resources. The communications hardware includes a 70 megabit per second message ...

#### 15 Mariposa: a wide-area distributed database system

Michael Stonebraker, Paul M. Aoki, Witold Litwin, Avi Pfeffer, Adam Sah, Jeff Sidell, Carl Staelin, Andrew Yu

January 1996 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 5 Issue 1

Full text available: pdf(172.75 KB) Additional Information: full citation, abstract, citings, index terms

The requirements of wide-area distributed database systems differ dramatically from those of local-area network systems. In a wide-area network (WAN) configuration, individual sites usually report to different system administrators, have different access and charging algorithms, install site-specific data type extensions, and have different constraints on servicing remote requests. Typical of the last point are production transaction environments, which are fully engaged during normal business h ...

**Keywords**: Autonomy, Databases, Distributed systems, Economic site, Name service, Widearea network

# 16 Fast algorithms for bit-serial routing on a hypercube

B. Aiello, F. T. Leighton, B. Maggs, M. Newman

May 1990 Proceedings of the second annual ACM symposium on Parallel algorithms and architectures

Full text available: pdf(1.11 MB)

Additional Information: full citation, references, citings, index terms

# 17 A survey of PRAM simulation techniques

Tim J. Harris

June 1994 ACM Computing Surveys (CSUR), Volume 26 Issue 2

Full text available: pdf(1.70 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>terms</u>

The Parallel Random Access Machine (PRAM) is an abstract model of parallel computation which allows researchers to focus on the essential characteristics of a parallel architecture and ignore other details. The PRAM has long been acknowledged to be a useful tool for the study of parallel computing, but unfortunately it is not physically implementable in hardware. In order to take advantage of the broad base of algorithms and results regarding this high-level abstraction one needs general me ...

**Keywords**: bounded-degree networks, models of parallel computation, parallel complexity theory

# Abstracts in software engineering Software Engineering Notes Staff July 1984 ACM SIGSOFT Software Engineering Notes, Volume 9 Issue 4 Full text available: pdf(360.06 KB) Additional Information: full citation

19 Fault-tolerant circuit-switching networks

Nicholas Pippenger, Geng Lin

June 1992 Proceedings of the fourth annual ACM symposium on Parallel algorithms and architectures

Full text available: pdf(769.34 KB) Additional Information: full citation, references, index terms

20 Comparing random data allocation and data striping in multimedia servers

Jose Renato Santos, Richard R. Muntz, Berthier Ribeiro-Neto

June 2000 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems, Volume 28 Issue 1

Full text available: pdf(1.18 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We compare performance of a multimedia storage server based on a random data allocation layout and block replication with traditional data striping techniques. Data striping techniques in multimedia servers are often designed for restricted workloads, e.g. sequential access patterns with CBR (constant bit rate) requirements. On the other hand, a system based on random data allocation can support virtually any type of multimedia application, including VBR (variable bit rate) video or audio, ...

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John Colter, Netscape Navigator

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In IP networks, dynamic restoration is achieved through routing table update ...

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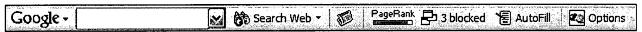
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#### Building expert networks that really fly: computational issues

Hruska, S.I.;

Neural Networks, 1994. IEEE World Congress on Computational Intelligence., 1994 IEEE International Conference on , Volume: 3 , 27 June-2 July 1994 Pages:1487 - 1492 vol.3

[Abstract] [PDF Full-Text (508 KB)] **IEEE CNF** 

#### 2 A module diagnosis and design-for-debug methodology based on hierarchical test paths

Makris, Y.; Orailoglu, A.;

Defect and Fault Tolerance in VLSI Systems, 1999. DFT '99. International Symposium on , 1-3 Nov. 1999

Pages: 339 - 347

[Abstract] [PDF Full-Text (116 KB)] **IEEE CNF** 

#### 3 A fuzzy logic based language to model autonomous mobile robots

Skarmeta, A.G.; Barbera, H.M.; Alonso, M.S.;

Fuzzy Systems Conference Proceedings, 1999. FUZZ-IEEE '99. 1999 IEEE

International, Volume: 1, 22-25 Aug. 1999

Pages: 550 - 555 vol.1

[Abstract] [PDF Full-Text (564 KB)] **IEEE CNF** 

#### 4 The symmetric hypernets-design and analysis

Kaushal, R.P.; Bedi, J.S.;

Circuits and Systems, 1992., Proceedings of the 35th Midwest Symposium on , 9-12 Aug. 1992

Pages:863 - 866 vol.2

#### [Abstract] [PDF Full-Text (372 KB)] IEEE CNF

# 5 Efficient fault-tolerant routing algorithms for forward loop backward hop networks

Pi-Rong Sheu; Wen-Tsuen Chen; Jenq-Fang Chiou; Local Computer Networks, 1991. Proceedings., 16th Conference on , 14-17 Oct.

Pages:408 - 417

[Abstract] [PDF Full-Text (756 KB)] IEEE CNF

#### 6 Tools and devices supporting the pseudo-exhaustive test

Hellebrand, S.; Wunderlich, H.-J.;

Design Automation Conference, 1990. EDAC. Proceedings of the European , 12-15 March 1990

Pages:13 - 17

[Abstract] [PDF Full-Text (448 KB)] IEEE CNF

7 IEEE standards for Local and Metropolitan Area Networks: supplement to Demand Priority Access Method, physical layer and repeater specifications: redundant links

IEEE Std 802.12d-1997 (Supplement to IEEE Std 802.12-1995) , 29 May 1997 [Abstract] [PDF Full-Text (1704 KB)] IEEE STD

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